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TOP SECRET

PRIORITY

OUT59511

1966 AUG 20 06 03Z

P 200527Z
FM NPIC

multi

25X1

22 AUG 1966

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CITE NPIC 8174.

SUBJECT: CAMERA INFORMATION FOR MISSION 1036-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A.

MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.602	609.602	FWD 55.00	FWD 55.00
			AFT 55.00	AFT 54.95
FILTER (WRATTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.200	.150	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404

1

1

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RESOLUTION (L/MM)	181	191	NA	NA

B.

S/I UNITS		STELLAR	INDEX
FOCAL LENGTH(MM)	PART 1	83.8990	38.3094
	PART 2	83.9418	38.3081
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		2.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		75
	PART 2		73
UNIT NUMBER	PART 1	D89/110/111	
	PART 2	D88/108/106	

3. LENS DISTORTION (PIN CUSION) MM

A.

MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.001	.002	.002	.000	.001	.001	.004
AFT UNIT	.002	.001	.000	.000	.000	.000	.001

B.

HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.000	.010	.100	.010
20 DEGREES	.030	.040	.050	.040
(TANGENTIAL) MAX VECTOR	.030	.030	.010	.060

4. CAMERA ANGLES

	DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS	29	47.60

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B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	41.6
	FWD PORT	15	24.9
	AFT STAR	14	42.3
	AFT PORT	15	23.1
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	90	07.1
	PART 2	89	59.8

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATE (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO.	CPS. GAV.	NO.	CPS. GAV.	
6	.3625 .0328	7	.0650 .0059	2D1
6	.3625 .0328	6	.0810 .0073	4D1 THRU 13D1
5	.3780 .0342	7	.0650 .0059	14D1 THRU 29D1
5	.3780 .0342	6	.0810 .0073	31D1 THRU 114D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION
	DAY	HR	MIN	SEC	SEC	SEC
2D1	09	23	44	31	1246	40
4D1	10	02	40	25	1076	94
4D2	10	03	02	28	2399	42
8AE	10	08	19	48	0	46
8D1	10	08	42	47	1370	118

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11D1	10	13	17	02	1739	96
13D1	10	16	24	38	2273	98
14D1	10	17	40	09	1445	40
16D1	10	20	40	46	1557	50
20D1	11	02	31	21	1151	58
20D2	11	02	33	12	1261	87
22D1	11	05	33	15	1343	176
22D2	11	05	39	31	1719	113
23D1	11	07	01	04	1252	119
23D2	11	07	04	56	1483	34
24D1	11	08	24	42	909	45
24D2	11	08	34	18	1485	99
25D1	11	09	58	48	1195	104
25D2	11	10	01	49	1375	35
26D1	11	11	24	23	969	43
26D2	11	11	28	12	1198	184
29D1	11	16	15	04	2330	113
31D1	11	19	00	17	1435	60
32D1	11	20	30	31	1490	54
36D1	12	02	18	47	950	37
36D2	12	02	21	34	1117	34
37D1	12	03	52	54	1237	56
37D2	12	04	14	09	2513	40
38D1	12	05	26	26	1490	128
38D2	12	05	29	26	1670	127

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39D 1	12	06	51	29	1235	87
39D2	12	06	56	32	1539	113
40D 1	12	08	20	42	1228	162
41D 1	12	09	48	53	1160	196
43D 1	12	12	56	33	1704	112
45D 1	12	16	10	19	2615	126
48D 1	12	20	20	07	1530	85
54D 1	13	05	18	47	1709	128
56D 1	13	08	11	03	1332	35
56D2	13	08	12	12	1401	35
56D3	13	08	15	57	1625	45
57D 1	13	09	38	09	1200	195
59D 1	13	12	38	07	1284	87
64D 1	13	20	09	08	1562	93
67D 1	14	00	28	37	1062	77
68D 1	14	02	16	44	2193	24
68D2	14	02	20	42	2431	33
69D 1	14	03	48	23	2337	32
69D2	14	03	52	36	2590	50
70D 1	14	04	55	37	1017	81
70D2	14	04	59	14	1234	64
70D3	14	05	07	50	1750	60
72D 1	14	08	00	02	1371	34
73D 1	14	09	28	18	1310	127
74D 1	14	10	52	22	1000	40

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74D2	14	10	55	22	1180	36
74D3	14	10	57	20	1299	35
74D4	14	10	58	59	1398	100
77D1	14	15	22	40	1152	36
77D2	14	15	39	25	2157	23
77D3	14	15	42	59	2371	39
80D1	14	19	58	35	1645	38
81D1	14	21	28	13	1670	36
82D1	14	22	43	51	853	98
85D1	15	03	36	12	2332	77
85D2	15	03	40	54	2614	50
86D1	15	04	54	45	1690	126
87D1	15	06	21	38	1550	32
88D1	15	07	47	20	1338	117
89D1	15	09	18	17	1441	34
90D1	15	10	38	00	871	98
90D2	15	10	45	51	1341	185
91D1	15	12	14	04	1283	88
93D1	15	15	28	05	2218	45
93D2	15	15	31	17	2410	39
93D3	15	15	35	31	2664	49
94D1	15	16	56	42	2182	181
95D1	15	18	16	08	1595	34
97D1	15	21	29	47	2509	36
98D1	15	22	32	05	893	46

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99D 1	16	00	05	32	1148	76
101D 1	16	03	03	52	1143	60
102D 1	16	04	32	22	1104	71
104D 1	16	07	36	53	1469	143
105AE	16	08	44	01	146	46
105D 1	16	09	06	59	1524	137
106D 1	16	10	32	45	1318	103
107D 1	16	12	01	53	1317	113
109D 1	16	15	16	12	2271	263
111D 1	16	18	03	38	1615	39
113D 1	16	21	02	57	1673	61
114AE	16	21	57	35	0	48

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
7	132243.629	24524.8486	----
16	182267.567	74548.7899	.003
24	223601.809	29483.0349	.003
32	268118.159	73999.3884	.004
40	309394.665	28875.8979	.004
48	353858.326	73339.5630	.004
56	395170.722	28251.9630	.004
64	439657.333	72738.5786	.005
72	480909.370	27590.6202	.005

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81	530691.191	77372.4470	.006
88	29763.995	26916.1674	.005
89	34691.616	31843.7890	.001
97	79528.449	76680.6278	.006
104	115394.762	26146.9456	.005
113	164971.493	75723.6836	.007

NOTE: ALL "DIFFERENCE" VALUES ARE MINUS.

GP-1

T O P S E C R E T

-END OF MESSAGE-

ALSO PASSED

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